



PATENT
Docket No.: 19603/3541 (CRF D-2694A)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) :	Hyman et al.)	Examiner:
)	Unknown
Serial No. :	10/001,643)	
Cnfrm. No. :	2817)	Art Unit:
)	3737
Filed :	October 31, 2001)	
For :	IN VIVO MULTIPHOTON DIAGNOSTIC)	
	DETECTION AND IMAGING OF A)	
	NEURODEGENERATIVE DISEASE)	

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§ 1.97-1.98

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR §§ 1.97-1.98, applicants hereby bring to the attention of the United States Patent and Trademark Office, the enclosed 63 references listed on the attached PTO-1449 form.

Pursuant to 37 CFR § 1.97(b)(3), no fee is required. Should it be determined that a fee is required, the Commissioner is authorized to charge any additional fee to Deposit Account No. 14-1138.

Respectfully submitted,

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Date: May 7, 2003

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Certificate of Mailing - 37 CFR 1.8(a)	
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450, on the date below	
Date <u>May 7, 2003</u>	<u>JoAnn Whalen</u> JoAnn Whalen

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	ATTY. DOCKET NO. 19603/3541 (CRF D-2694A)	SERIAL NO. 10/001,643
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
	1	5,034,613	07/23/91	Denk et al.			
	2	5,115,137	05/19/92	Andersson-Engels, et al.			
	3	5,353,790	10/11/94	Jacques et al.			
	4	5,421,337	06/06/95	Richards-Kortum et al.			
	5	5,590,660	01/07/97	MacAulay et al.			
	6	5,697,373	12/16/97	Richards-Kortum et al.			
	7	5,699,795	12/23/97	Richards-Kortum et al.			
	8	5,827,190	10/27/98	Palcic et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS- LATION IF APPRO- PRIATE
	9	0 512 965 A1	11/11/92	Europe			
	10	0 920 831 A1	06/09/99	Europe			

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

		11	Tromberg et al., "Optical Fiber Fluoroprobes for Biological Measurements," <u>Applied Spectroscopy</u> 38(1):38-42 (1984)
		12	Dinkel et al., "Remote Two-Photon Excited Fluorescence Sensing in a Simulated Fermentation Broth," <u>Analytica Chimica Acta</u> 263:131-136 (1992)
		13	Williams et al., "Mucosal Mast Cell Secretion Processes Imaged Using Three-Photon Microscopy of 5-Hydroxytryptamine Autofluorescence," <u>Biophysical Journal</u> 76:1835-1846 (1999)
		14	Xu et al., "Multiphoton Excitation of Molecular Fluorophores and Nonlinear Laser Microscopy," in Lakowicz, ed., <u>Topics in Fluorescence Spectroscopy</u> Vol. 5, New York, New York: Plenum Press, pp. 471-540 (1997)
		15	Shear et al., "Multiphoton-Excited Visible Emission by Serotonin Solutions," <u>Photochemistry and Photobiology</u> 65(6):931-936 (1997)
EXAMINER			DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS- LATION IF APPRO- PRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

		16	Xu et al., "Multiphoton Excitation Cross-sections of Molecular Fluorophores," <u>Bioimaging</u> 4:198-207 (1996)
		17	Maiti et al., "Measuring Serotonin Distribution in Live Cells with Three-Photon Excitation," <u>Science</u> 275:530-532 (1997)
		18	Xu et al., "Multiphoton Fluorescence Excitation: New Spectral Windows for Biological Nonlinear Microscopy," <u>Proc. Natl. Acad. Sci. USA</u> 93:10763-10768 (1996)
		19	Lago et al., "Two-Photon-Induced Fluorescence of Biological Markers Based on Optical Fibers," <u>Optics Letters</u> 20(20):2054-2056 (1995)
		20	Williams et al., "Two-Photon Molecular Excitation Provides Intrinsic 3-Dimensional Resolution for Laser-based Microscopy and Microphotochemistry," <u>FASEB Journal</u> 8:804-813 (1994)
		21	Denk et al., "Two-Photon Molecular Excitation in Laser-Scanning Microscopy," in Pawley, ed., <u>Handbook of Biological Confocal Microscopy</u> , New York, New York: Plenum Press, pp. 445-458 (1995)
		22	Webb, "Non-Linear Laser Microscopy," <u>Progress in Biophysics & Molecular Biology</u> XIIth International Biophysics Congress, 65:20 (1996) (Abstract)
		23	Webb et al., "Multiphoton Fluorescence Correlation Spectroscopy with Single Molecules in Living Cells," 4 th International Weber Symposium on Innovative Fluorescence Methodologies in Biochemistry and Medicine (1999) (Abstract)
		24	Nichols et al., "Visualization of Mitochondria Via Two-Photon Microscopy of NADH: Identifying Conditions that Maintain Cell Viability," <u>Biophysics Journal</u> 76:A9 (1999) (Abstract)
		25	Nichols et al., "Identification of the Principle Sources of Two-Photon Autofluorescence From HeLa Cell Monolayers," <u>Biophysics Journal</u> 72:A346 (1997) (Abstract)

EXAMINER

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OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

		26	Williams et al., "Three-Photon Excitation Imaging of Serotonin Secretion by RBL-2H3 Cells," <u>Biophysics Journal</u> 72:A156 (1997) (Abstract)
		27	Xu et al., "Multiphoton Excitation of Molecular Fluorophores and Native Biological Absorbers," <u>Biophysics Journal</u> 72:A90 (1997) (Abstract)
		28	Shear et al., "Multiphoton-Excited Photochemistry Yields Visible Emission from Serotonin," <u>Biophysics Journal</u> 72:A346 (1997) (Abstract)
		29	Xu et al., "Multiphoton Excitation of Fluorophores in Nonlinear Laser Microscopy," <u>OSA Annual Meeting/ILS-XII/Optics & Imaging in the Information Age Advance Program</u> p. 158 (1996) (Abstract)
		30	Webb, "Biological Applications of Nonlinear Laser Microscopy," <u>Advanced Solid-State Lasers</u> , Twelfth Topical Meeting, p. 65 (1997) (Abstract)
		31	Webb et al., "Multiphoton Molecular Excitation to Illuminate Non-Linear Laser Microscopy," in Barbara et al., eds., <u>Springer Series in Chemical Physics: Ultrafast Phenomena X</u> , Vol. 62, Berlin: Springer-Verlag, p. 133 (1996) (Abstract)
		32	Webb, "Non-Linear Optical Microscopy," <u>Biophysics Journal</u> 70:A429 (1996) (Abstract)
		33	Webb, "Non-Linear Laser Microscopy," <u>Photochemistry and Photobiology</u> 63:45S (1996) (Abstract)
		34	Xu et al., "Three-Photon Excited Fluorescence and Applications in Nonlinear Laser Scanning Microscopy," <u>Biophysics Journal</u> 70:A429 (1996) (Abstract)
		35	Maiti et al., "Multiphoton Fluorescence Spectroscopy Through Optical Fibers," <u>Biophysics Journal</u> 72:A217 (1997) (Abstract)

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	36	4,576,173	03/18/86	Parker et al.			
	37	4,592,361	06/03/86	Parker et al.			
	38	4,895,156	01/23/90	Schulze			
	39	5,119,815	06/09/92	Chance			
	40	5,127,405	07/07/92	Alcala et al.			
	41	5,197,470	03/30/93	Helfer et al.			
	42	5,311,013	05/10/94	Gutcheck et al.			
	43	5,323,775	06/28/94	Joshi et al.			
	44	5,333,044	07/26/94	Shaffer			
	45	5,341,805	08/30/94	Stavridi et al.			
	46	5,579,773	12/03/96	Vo-Dinh et al.			
	47	5,628,310	05/13/97	Rao et al.			

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

		48	Masters et al., "Confocal Microscopy and Multi-Photon Excitation Microscopy of Human Skin <i>In Vivo</i> ," <u>Optics Express</u> 8(1):2-10 (2001)
		49	Masters et al., "Multiphoton Excitation Microscopy of Human Skin <i>In Vivo</i> : Early Development of an Optical Biopsy," <u>In SFM99</u> (Saratov Fall Meeting 99), Saratov State University Optics Department, Russia (1999)
		50	Helmchen et al., "A Miniaturized Two-Photon Fiber-Scanning Microscope for <i>In Vivo</i> Imaging," <u>Society for Neuroscience</u> Vol. 25:Abstract 322.1 (1999) (abstract)
		51	Glanzmann et al., "Time-Resolved Spectrofluorometer for Clinical Tissue Characterization During Endoscopy," <u>Review of Scientific Instruments</u> 70(10):4067-4077 (1999)
		52	Arendt et al., "Investigation of Early Cancerous Changes in Bladder Tissue by Autofluorescence," Proceedings - 19 th International Conference - <u>IEEE/EMBS</u> pp. 2290-2293 (1997)
		53	Zonios et al., "Morphological Model of Human Colon Tissue Fluorescence," <u>IEEE Transactions on Biomedical Engineering</u> 43(2):113-122 (1996)
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	54	5,419,323	05/30/1995	Kittrell et al.			
	55	5,986,271	11/16/1999	Lazarev et al.			
	56	6,070,096	05/30/2000	Hayashi			
	57	6,178,041 B1	01/23/2001	Simon			
	58	6,201,989 B1	03/13/2001	Whitehead et al.			
	59	6,212,425 B1	04/03/2001	Irion et al.			
	60	6,238,348 B1	05/29/2001	Crowley et al.			
	61	6,178,041 B1	01/23/2001	Simon			
	62	6,344,653 B1	02/05/2002	Webb et al.			
	63	6,166,385	12/26/2000	Webb et al.			

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